

List of Plants

C NEROL

Chemid

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Dosage

LD50=3,600 mg/kg (orl rat)

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Plant	Plant Part	Low PPM	High PPM	StdDev	*Reference
Aeolanthus myriant ha	Flower	--	--		Wealth of India.
Agathosma betulina	Leaf Essent. Oil	--	--		*
Aloysia citrodora	Plant	52.0	364.0	-0.21	*
Artemisia dracunculus	Leaf Essent. Oil	--	670000.0	1.0	*
Artemisia vulgaris	Plant	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Artemisia dracunculus	Shoot	670.0	6700.0	3.46	*
Bursera delpechiana	Wood	--	--		*
Camellia sinensis	Leaf	--	--		*
Cananga odorata	Flower	--	--		*
Centella asiatica	Shoot	--	--		Jim Duke's personal files.
Cinnamomum verum	Leaf Essent. Oil	--	--		*
Cinnamomum verum	Leaf	--	120.0	0.12	Mallavarupu, G. R. et al. 1995. Investigation of the essential oil of cinnamon leaf grown at Bangalore and Hyderabad. Flav. & Fragr. J., 10: 239-242.
Cinnamomum verum	Plant	--	--		*
Cinnamomum verum	Stem Bark	--	--		*
Cinnamomum camphora	Leaf	--	--		*
Cistus ladaniferus	Leaf	22.0	1540.0	5.04	*
Citrus aurantium	Plant	--	--		*
Citrus reticulata	Fruit	0.4	0.8	-0.56	*
Citrus sinensis	Fruit	0.7	1.0	-0.55	*
Citrus limon	Leaf Essent. Oil	8000.0	76000.0	-1.0	Jim Duke's personal files.
Citrus paradisi	Pericarp	--	3.0		*
Citrus limon	Pericarp Essent. Oil	--	--		Jim Duke's personal files.

<i>Citrus aurantium</i>	Leaf	100.0	150.0	0.22	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Citrus limon</i>	Petiole	--	41.0		*
<i>Citrus limon</i>	Pericarp	--	--		Jim Duke's personal files.
<i>Coriandrum sativum</i>	Essential Oil	--	--		*
<i>Coriandrum sativum</i>	Fruit	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Coriandrum sativum</i>	Seed Essent. Oil	--	6150.0	1.0	*
<i>Cymbopogon nardus</i>	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Cymbopogon winterianus</i>	Plant	308.0	539.0	-0.09	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
<i>Cymbopogon citratus</i>	Plant	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
<i>Cymbopogon parkeri</i>	Plant	2059.0	6189.0	3.55	Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
<i>Elettaria cardamomum</i>	Fruit	10.0	30.0	1.73	Duke, J. A. and duCellier, J. L. 1993. CRC Handbook of Alternative Cash Crops. CRC Press. Boca Raton, FL 33431. 536 pp. US \$312.50.
<i>Elettaria cardamomum</i>	Seed Essent. Oil	--	3000.0	-1.0	*
<i>Elsholtzia eriostachya</i>	Shoot	--	11.0	-0.31	Pant, A.K., Dev, V., Parihar, R., Mathela,C.S., Rauscher, J., Vostrowsky, O. and Bestmann, H.J. 1992. The Essential Oil from Elsholtzia eriostachya var. pusilla. J. Ess. Oil Res. 4: 547-549.
<i>Elsholtzia pilosa</i>	Shoot	--	1.0	-0.32	*
<i>Eucalyptus viridis</i>	Leaf	--	0.5	-0.3	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
<i>Eucalyptus porosa</i>	Leaf	--	10.0	-0.26	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
<i>Eucalyptus intertexta</i>	Leaf	--	5.5	-0.28	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
<i>Eucalyptus largisparsa</i>	Leaf	--	4.6	-0.28	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
<i>Eucalyptus fasciculosa</i>	Leaf	--	1.3	-0.29	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
<i>Eucalyptus desquamata</i>	Leaf	--	15.0	-0.25	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
<i>Eucalyptus lansdowneana</i>	Leaf	--	9.0	-0.27	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
<i>Eucalyptus behriana</i>	Leaf	--	85.0	-0.0	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
<i>Eucalyptus sparsa</i>	Leaf	--	25.0	-0.21	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
<i>Eucalyptus melanophloia</i>	Leaf	--	0.8	-0.3	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
<i>Eucalyptus odorata</i>	Leaf	--	4.4	-0.28	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
<i>Eucalyptus populnea</i>	Leaf	--	5.0	-0.28	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
<i>Eucalyptus ochrophloia</i>	Leaf	--	0.5	-0.3	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
<i>Eucalyptus</i>	Leaf	--	6.4	-0.28	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western

					Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus leucoxylon	Leaf	--	5.5	-0.28	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Helichrysum angustifolium	Plant	225.0	1000.0	0.2	*
Humulus lupulus	Fruit	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Humulus lupulus	Essential Oil	--	--		*
Hypericum perforatum	Plant	1.0	18.0	-0.43	*
Hyssopus officinalis	Flower	0.8	8.0	-1.14	Flavour and Fragrance Journal, 6: 72.
Hyssopus officinalis	Leaf	0.8	9.0	-0.27	Flavour and Fragrance Journal, 6: 72.
Jasminum officinale	Flower	--	--		*
Juniperus communis	Fruit	--	--		*
Juniperus communis	Fruit Essent. Oil	--	--		*
Laurus nobilis	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lavandula x intermedia	Plant	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lavandula latifolia	Plant	1.0	15.0	-0.43	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Mangifera indica	Flower	--	--		*
Melaleuca alternifolia	Leaf	--	0.001	-0.3	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Melia azedarach	Wood	--	--		*
Melissa officinalis	Shoot	1.0	24.0	-0.3	Deutsche Apot. Zit. 129(4):155-163. W. Schulze et al. Die Melisse.
Mentha pulegium	Essential Oil	--	1000.0	-0.82	*
Mentha x piperita	Tissue Culture	--	--		*
Mentha pulegium	Plant	10.0	20.0	-0.43	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Monarda fistulosa	Plant	15.0	310.0	-0.24	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Myristica fragrans	Essential Oil	--	--		*
Myrtus communis	Plant	--	--		*
Nepeta cataria	Plant	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Nepeta cataria	Essential Oil	--	276000.0	1.41	*
Ocimum basilicum	Shoot Essent. Oil	--	700.0		*
Ocimum tenuiflorum	Leaf	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
Ocimum basilicum	Essential Oil	--	30000.0	-0.59	*
Ocimum basilicum	Plant	2.5	300.0	-0.25	*
Origanum vulgare	Plant	--	0.9	-0.44	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four Origanum vulgare Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.
Origanum vulgare	Plant	--	0.6	-0.44	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four Origanum vulgare Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.

<i>Pelargonium citrosomum</i>	Shoot	--	3.0	-0.32	Malsaud, D. M., et al. 1990. Essential Oil Analysis and Field Evaluation of the Citrusid Plant 'Pelargonium citrosomum' as a Repellent Against Populations of Aedes Mosquitoes. J. Am. Mosq. Contr. Assoc. 12(1):69-74.
<i>Pelargonium roseum</i>	Shoot	--	216.0	-0.2	*
<i>Peumus boldus</i>	Leaf	--	12.0	-0.26	*
<i>Pimenta racemosa</i>	Leaf	--	110.0	0.08	*
<i>Polianthes tuberosa</i>	Flower	--	--		*
<i>Robinia pseudoacacia</i>	Flower	--	--		*
<i>Rosa damascena</i>	Essential Oil	--	--		*
<i>Rosa centifolia</i>	Essential Oil	--	--		*
<i>Rosa gallica</i>	Flower	15.0	36.0	-0.85	*
<i>Rosmarinus officinalis</i>	Shoot	--	--	-0.32	Tucker, A. O. and Maciarello, M. J. 1998. The essential oils of some rosemary cultivars. Flavor and Fragrance Journal, 1: 137-142. 1986.
<i>Salvia sclarea</i>	Plant	6.0	280.0	-0.26	Flavour and Fragrance Journal, 6: 154.
<i>Sambucus nigra</i>	Flower Essent. Oil	--	--		*
<i>Satureja hortensis</i>	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Satureja montana</i>	Plant	1.0	270.0	-0.27	Stanic, G., Petricic, J., and Blazevic, N. 1991. Gas Chromatographic Investigations of Essential Oils of Satureja montana and Satureja subspicata from Yugoslavia. J. Ess. Oil Res., 3: 153-158.
<i>Sideritis mugronensis</i>	Leaf	55.0	80.0	-0.02	Manez, S., Jimenez, A., and Villar, A. 1991. Volatiles of Sideritis mugronensis Flower and Leaf. J. Ess. Oil Res., 3: 395-397.
<i>Sideritis mugronensis</i>	Flower	160.0	220.0	1.04	Manez, S., Jimenez, A., and Villar, A. 1991. Volatiles of Sideritis mugronensis Flower and Leaf. J. Ess. Oil Res., 3: 395-397.
<i>Sideritis scardica</i>	Shoot	--	65.0	-0.28	Menkovic, N., et al. 1991. The Essential Oil of Sideritis scardica. Pl. Med. 57. Suppl. 2. pp. A137-A132.
<i>Skimmia arborescens</i>	Leaf	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Tamarindus indica</i>	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<i>Telosma cordata</i>	Flower	--	211.0	0.95	K. Furukawa, T. Arai, S. Hashimoto, (1993); Volatile components of Telosma cordata Merrill flowers, Flavour Fragr. J., Vol 8, 221-223.
<i>Teucrium divaricatum</i>	Leaf	--	--	-0.3	Arnold, N., Bellomaria, B., Velentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. J. Ethnopharm. 35: 105-113.
<i>Teucrium micropodioides</i>	Leaf	--	80.0	-0.02	Arnold, N., Bellomaria, B., Velentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. J. Ethnopharm. 35: 105-113.
<i>Teucrium cyprium</i>	Leaf	--	50.0	-0.13	Arnold, N., Bellomaria, B., Velentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. J. Ethnopharm. 35: 105-113.
<i>Teucrium kotschyanum</i>	Leaf	--	--	-0.3	Arnold, N., Bellomaria, B., Velentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. J. Ethnopharm. 35: 105-113.
<i>Thymus funkii</i>	Shoot	--	16.0	-0.31	Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.
<i>Thymus longicaulis</i>	Shoot	--	--	-0.32	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of Thymus longicaulis C. Presl subsp. longicaulis in the same Population. J. Ess. Oil Res. 5: 291-5.
<i>Thymus x citriodorus</i>	Plant	--	280.0	-0.26	Stahl-Biskup, E. and Holthuijzen, J. 1995. Essential oil and glycosidally bound volatiles of lemon-scented thyme, Thymus x citriodorus (Pers.) Schreb. Flav. & Fragr. J. 10: 225-229.
<i>Thymus longicaulis</i>	Shoot	--	140.0	-0.24	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of Thymus longicaulis C. Presl subsp. longicaulis in the same Population. J. Ess. Oil Res. 5: 291-5.
<i>Thymus funkii</i>	Shoot	--	16.0	-0.31	Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.
<i>Thymus longicaulis</i>	Shoot	--	140.0	-0.24	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of Thymus longicaulis C. Presl subsp. longicaulis in the same Population. J. Ess. Oil Res. 5: 291-5.
<i>Tilia sp.</i>	Flower	--	--		*
<i>Vaccinium corymbosum</i>	Fruit	0.02	0.08	-0.62	*
<i>Vaccinium myrtillus</i>	Fruit Juice	--	0.002		*
<i>Vitis vinifera</i>	Leaf	--	--		*

<i>Zingiber officinale</i>		Essent. Oil			
<i>Zingiber officinale</i>	Rhizome	--	--		*